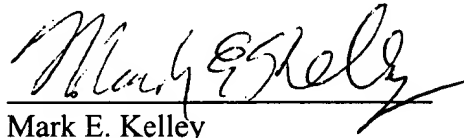Should it facilitate allowance of the application, the Examiner is invited to telephone the undersigned attorney. The Commissioner is hereby authorized to charge any payment that may be due or credit any overpayment to Deposit Account No. 08-2395.

Respectfully submitted,

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VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE SPECIFICATION:

Paragraph starting on page 14, line 19, to page 15, line 3, has been amended as follows:

(C) Model Checker

Logical model checking can <u>be</u> performed using the SPIN model checker. SPIN verification models can define the behavior of systems of asynchronous processes that interact by synchronous or asynchronous message passing, or by shared access to global data. SPIN converts the input specification into a product of automata. The global behavior defined by this product can be checked efficiently for a wide range of correctness properties using an automata theoretic model checking procedure. More information on the [automate]<u>automata</u>-theoretic approach to formal verification can be found in: Gerard J. Holzmann, *'The model checker Spin'*, IEEE Trans. On Software Engineering, Vol. 23, No. 5, May 1997, pp. 279-295, and in: Vardi and Wolper, *An Automata-theoretic Approach to Automatic Program Verification*, Proc. Symp. on Logic in Computer Science, pp. [322-331]<u>332-344</u>, Cambridge, June 1986.